



A GUIDE
FOR YOUR ENJOYMENT
TABLE COLOR TV
MODEL
CS-1945R

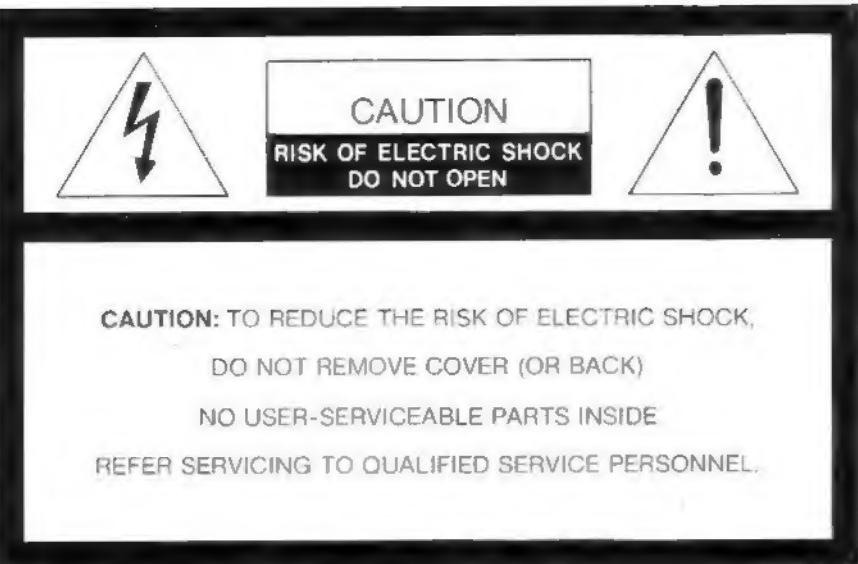
For future reference, record the serial number of your TV in the space below.

SERIAL No. **U194519907**

The serial number is located on the rear cover of the set.

Model No CS-1945R

Purchased 2/08/88



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE TO CATV SYSTEM INSTALLER:

THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-22 OF THE NEC THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

IMPORTANT SAFEGUARDS

PLEASE READ ALL THESE INSTRUCTIONS REGARDING YOUR TELEVISION SET AND RETAIN FOR FUTURE REFERENCE. FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE TV RECEIVER.

1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Heed Warnings

All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions

All operating and use instructions should be followed.

5. Cleaning

Unplug this TV receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachments and Equipments

Never add any attachments and/or equipments without approval of the manufacturer as such additions may result in the risk of fire, electric shock, or other personal injury.

7. Water and Moisture

Do not use this TV receiver where contact with or immersion in water is a possibility. Do not use near: bath tubs, wash bowls, kitchen sinks, laundry tubs, or swimming pools, etc.

8. Accessories

Do not place this TV receiver on an unstable cart, stand, tripod, bracket, or table. The TV receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod bracket, or table recommended, by the manufacturer, or sold with the TV receiver. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV receiver and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the TV receiver on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV receiver is to be placed in a rack or bookcase, insure that

there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. Power Sources

This TV receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.

11. Grounding or Polarization

This TV receiver is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Lightning

For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

14. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

15. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. Object and Liquid Entry

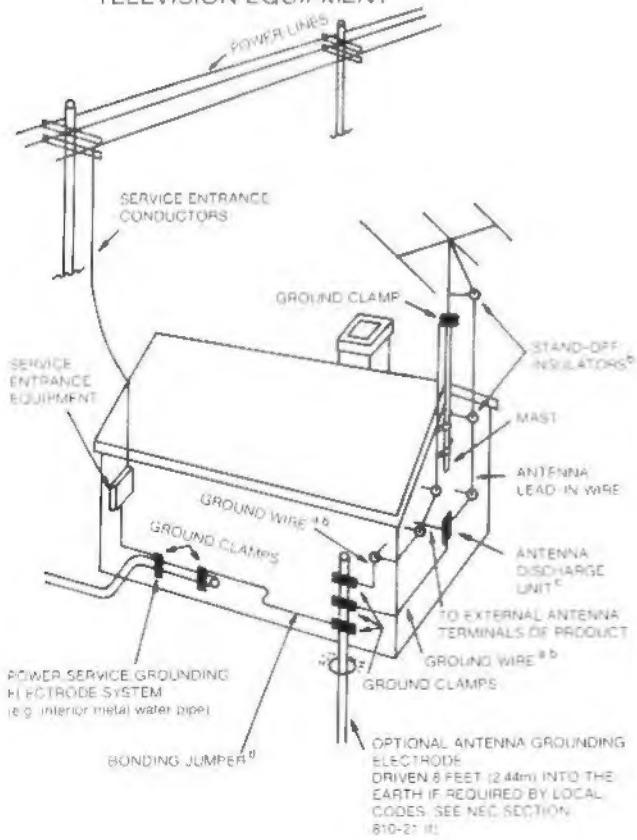
Never push objects of any kind into this TV receiver through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV receiver.

17. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV receiver, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No. 70 — 1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 — "RADIO AND TELEVISION EQUIPMENT"



^aUse No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.

^bSecure antenna lead-in and ground wires to house with stand-off insulators spaced from 4-6 feet (1.22-1.83m) apart.

^cMount antenna discharge unit as close as possible to where lead-in enters house.

^dUse jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used.

18. Servicing

Do not attempt to service this TV receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Damage requiring Service

Unplug this TV receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions

- When the power-supply cord or plug is damaged
- If liquid has been spilled, or objects have fallen into the TV receiver.
- If the TV receiver has been exposed to rain or water.
- If the TV receiver does not operate normally by following the operating instructions.

Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV receiver to its normal operation.

- If the TV receiver has been dropped or the cabinet has been damaged
- When the TV receiver exhibits a distinct change in performance — this indicates a need for service.

20. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. Safety Check

Upon completion of any service or repairs to this TV receiver, ask the service technician to perform safety checks to determine that the TV receiver is in safe operating conditions.

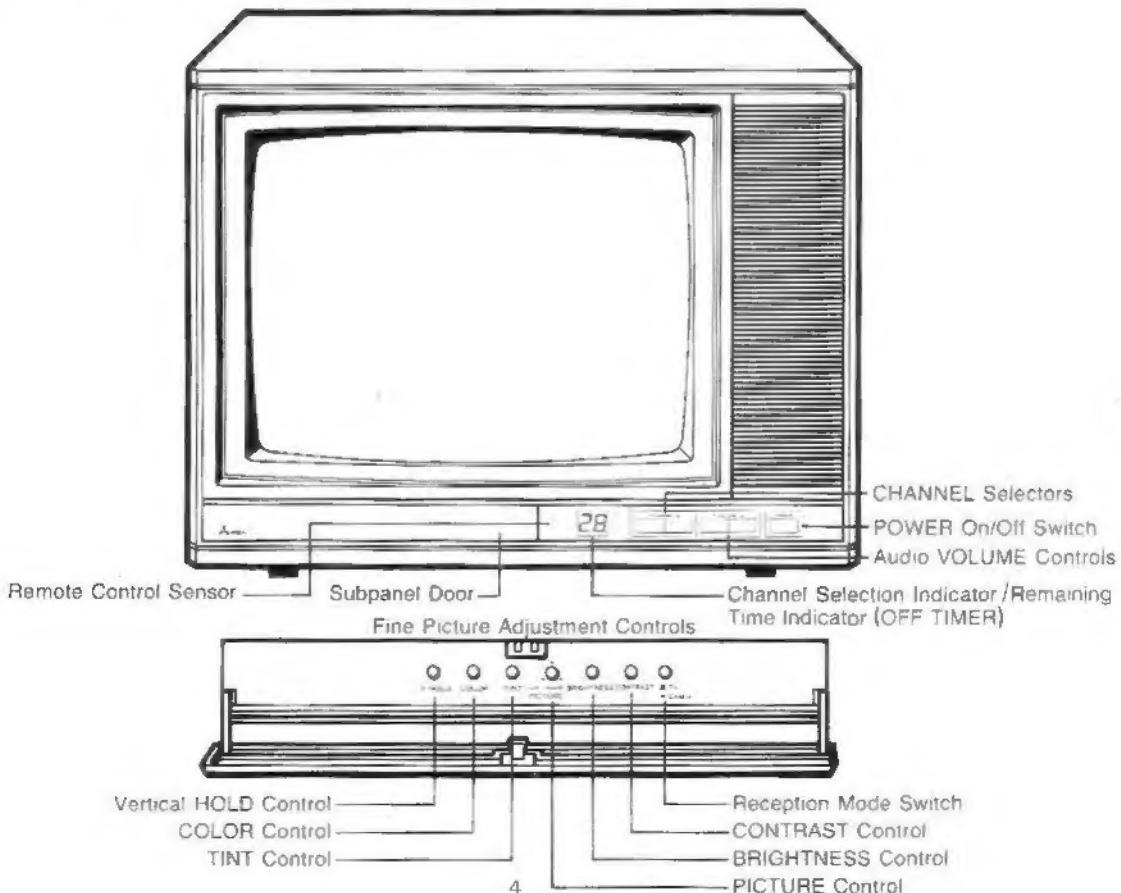
QUICK SET-UP PROCEDURE

We recommend that you carefully read the descriptions and operating procedures contained in this instruction book prior to operation of your MGA color television. In the event that you require immediate use of this unit, the following steps are necessary:

1. Place the unit in an appropriate location. Refer to instructions on location.
2. If using the built-in VHF rod antenna and UHF loop antenna, install the attached rod/loop antenna in the appropriate position. Refer to the ANTENNA INSTALLATION and CONNECTIONS section for details. First connect the 300Ω flat twin lead from the rod antenna to the 300Ω - 75Ω matching transformer (supplied). Push the connector of the matching transformer onto the antenna terminal marked VHF 75Ω . Next attach the end connectors of the 300Ω flat twin lead from the UHF loop antenna to the antenna screw terminals marked UHF. Extend the rod antenna. If using an external VHF antenna with 300Ω flat twin lead, proceed as described above for the VHF rod antenna. An external VHF antenna with 75Ω coaxial cable lead is connected directly to the antenna terminal marked VHF 75Ω .
3. Insert the power cord plug into a 120V 60Hz AC outlet.
4. Set the reception mode switch to the TV position, or if connected to a cable (CATV) service set to the CABLE position.
5. Press the POWER on/off switch to turn the set on.
6. Select the desired channel using the channel selector key pad and adjust the volume with the audio volume controls.
7. Refer to the appropriate section of this instruction book for fine picture adjustment procedures and remote control transmitter operation.

The following information is intended to familiarize you with the front and rear panel terminology and includes a brief description. Please refer to the appropriate section of this instruction book for detailed operating instructions.

FRONT PANEL CONTROLS—LOCATION AND DESCRIPTION



CHANNEL SELECTION INDICATOR

This two digit display indicates the selected channel from 02 through 69 in the TV mode and 01 through 64, 95 through 99 in the CABLE mode. It also displays remaining time in minutes when the OFF TIMER is in operation.

POWER ON/OFF SWITCH

Pushing this button turns the TV on. The second push turns it off.

AUDIO VOLUME CONTROLS

Press the VOL ▲ button to increase the volume or the VOL ▼ button to decrease the volume. The volume adjustment is gradual and continuous until either button is released.

CHANNEL SELECTOR KEY PAD

The viewing channel may be selected by pressing the channel selector button marked ▲ to switch to the higher channels or by pressing the channel selector button marked ▼ to switch to the lower channels.

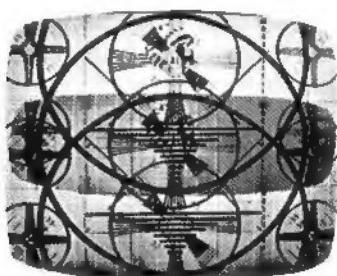
RECEPTION MODE SWITCH

Set the reception mode switch to the TV position for viewing of VHF and UHF broadcast television channels 02 through 69. Set to the CABLE position for viewing cable television channels 01 through 64 and 95 through 99.

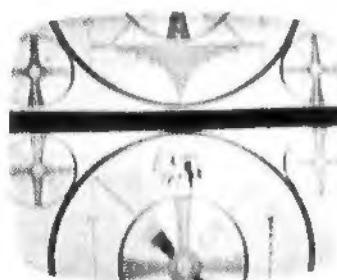
FINE PICTURE ADJUSTMENT

VERTICAL HOLD

Adjust Vertical HOLD to eliminate picture roll up or down as illustrated below.



V HOLD



COLOR CONTROL

The COLOR control adjusts the color intensity of the picture. Rotate clockwise to increase color intensity and counter-clockwise to decrease color intensity. Adjust to your preference.

TINT CONTROL

The TINT control adjusts the delicate tones of color. Rotate clockwise to add green tint to the color tone and counter-clockwise to add red tint to the color tone. Adjust to obtain the best flesh tones according to your preference.

PICTURE CONTROL

The PICTURE control adjusts the picture sharpness. Rotate clockwise to increase picture sharpness (sharp) and counter-clockwise to decrease picture sharpness (soft). Adjust to your preference or rotate to the center "detent" position for the factory pre-set picture level.

BRIGHTNESS CONTROL

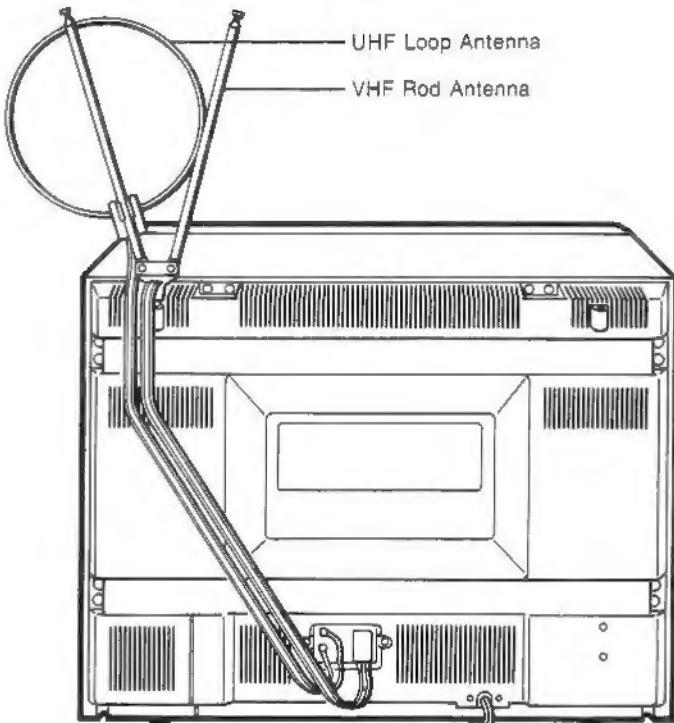
The BRIGHTNESS control adjusts the "black level" of the picture. This adjustment can be made more precise when the COLOR control is rotated fully counter-clockwise to a "black and white" picture. Adjust to your preference or rotate to the center "detent" position for the factory pre-set brightness level.

CONTRAST CONTROL

The CONTRAST control adjusts overall picture contrast level. This adjustment can be made more precise when the COLOR control is rotated fully counter-clockwise to a "black and white" picture. Adjust to your preference or rotate to the center "detent" position for the factory pre-set contrast level.

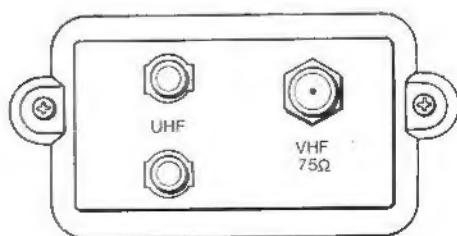
Note: Adjustment of BRIGHTNESS and CONTRAST should be done together to obtain the optimum settings. The factory pre-set or center "detent" position has been carefully chosen for optimum picture quality under average viewing conditions. Any adjustment of BRIGHTNESS and CONTRAST should begin from the factory pre-set detent position.

REAR PANEL TERMINOLOGY AND DESCRIPTIONS



ANTENNA TERMINALS

This set is equipped with two types of antenna terminals:



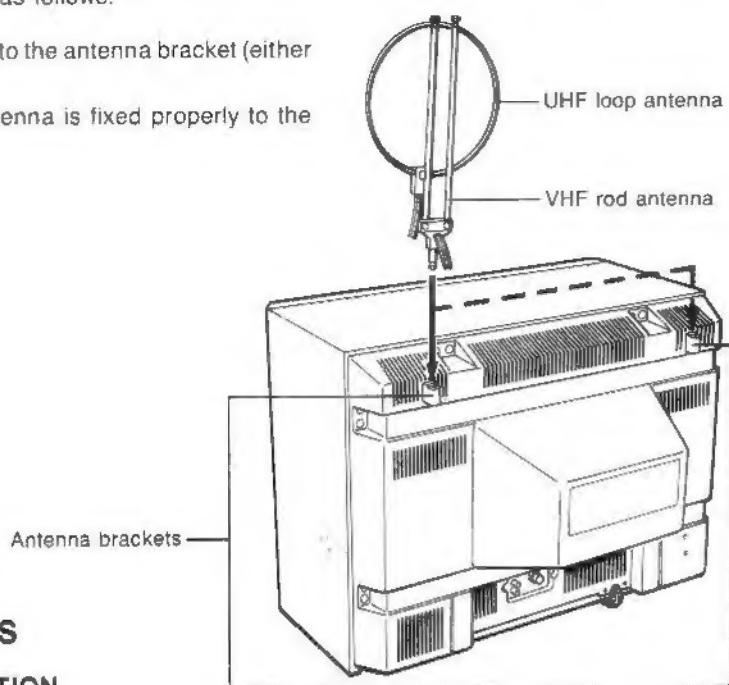
1. One set of 300Ω screw-type UHF terminals.

2. One 75Ω F type connector VHF terminal.

ANTENNA INSTALLATION

The built-in VHF rod antenna and UHF loop antenna are temporarily installed up-side-down. Install the antennas for proper use as follows:

1. Insert the VHF rod antenna fully into the antenna bracket (either left or right side).
2. Make sure that the UHF loop antenna is fixed properly to the VHF rod antenna.

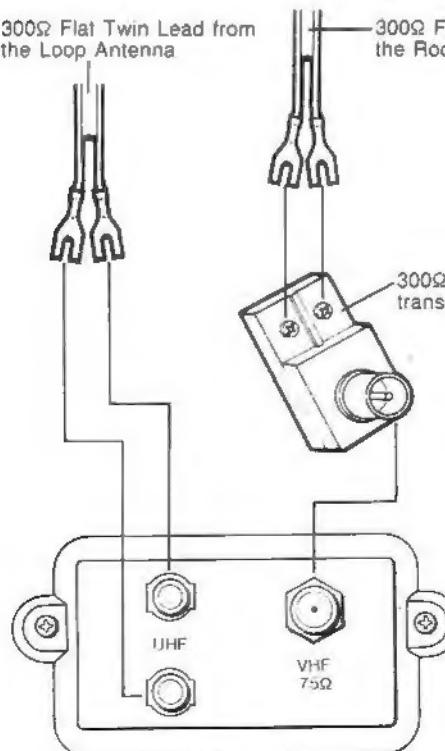


ANTENNA CONNECTIONS

BUILT-IN ANTENNA CONNECTION

This set is provided with a built-in VHF rod antenna and UHF loop antenna.

These built-in antennas are adequate for use in strong signal locations. Areas with weak signals or interference require a properly installed outdoor antenna.

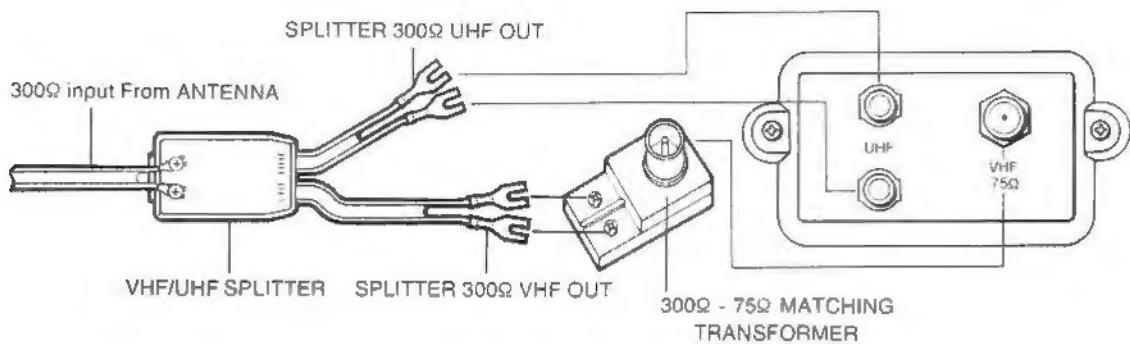


1. Connect the 300Ω flat twin lead from the VHF rod antenna to the $300\Omega - 75\Omega$ matching transformer (supplied).
2. Push the connector of the matching transformer onto the antenna terminal marked VHF 75Ω .
3. Connect the 300Ω flat twin lead from UHF loop antenna to the antenna terminals marked UHF.

BUILT-IN ANTENNA ADJUSTMENT

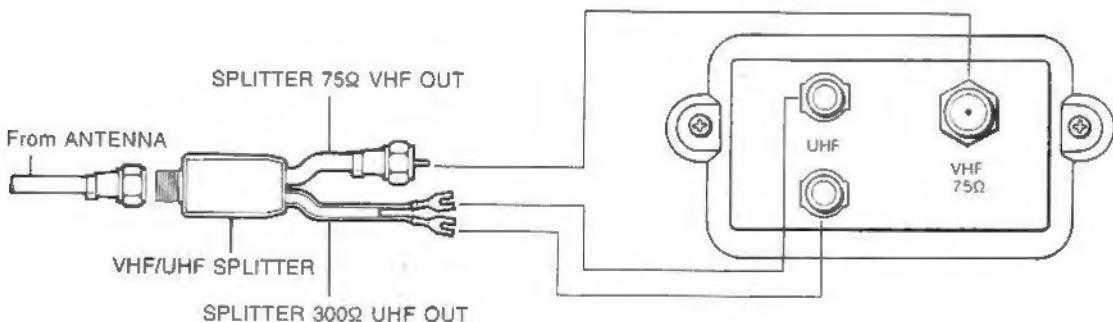
1. Fully extend the VHF rod antenna and select a lower VHF broadcast channel eg. 02, 04, etc. Position the antenna for the best reception.
2. Select a UHF broadcast channel and while holding the UHF loop antenna at the top of the loop, rotate or push forward or backward to obtain the best reception.

EXTERNAL VHF/UHF ANTENNA CONNECTION



1. Connect the 300Ω flat twin lead from the antenna to a VHF/UHF splitter as shown.
2. Connect the VHF output from the splitter to the $300\Omega - 75\Omega$ matching transformer (supplied).
3. Push the connector of the matching transformer on to the antenna terminal marked VHF 75Ω .
4. Connect the 300Ω flat twin lead UHF output from the splitter to the antenna terminals marked UHF.

VHF/UHF ANTENNA WITH 75Ω COAXIAL CABLE LEAD



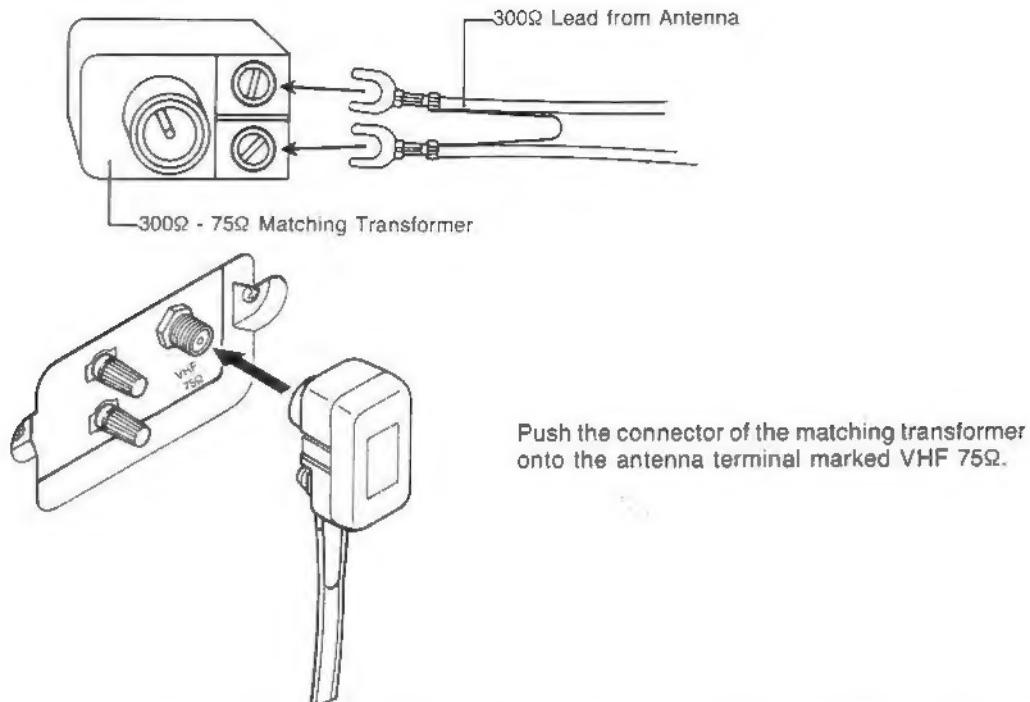
1. Connect the 75Ω coaxial cable lead from the antenna to the VHF/UHF splitter as shown.
2. Connect the 75Ω VHF output from the splitter to the antenna terminal marked VHF 75Ω .
3. Connect the 300Ω UHF output from the splitter to the antenna terminals marked UHF.

Note: Both types of VHF/UHF splitter are commercially available. The VHF/UHF splitters are not supplied with this unit.

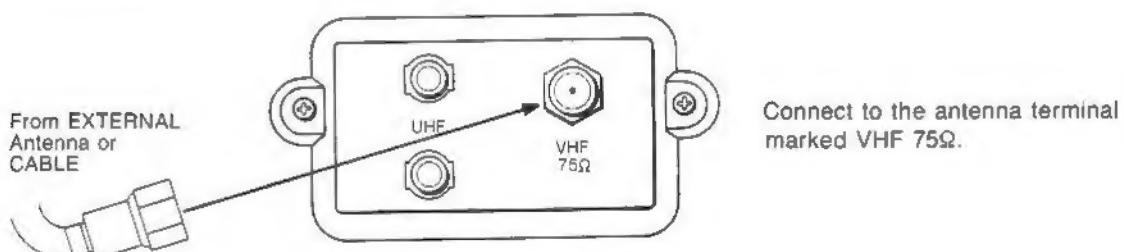
EXTERNAL VHF ANTENNA AND CABLE (CATV) CONNECTION

This set is equipped with a 75Ω VHF antenna terminal for use with an external antenna or cable (CATV).

- A. When using an external VHF antenna with 300Ω flat twin lead $300\Omega - 75\Omega$ matching transformer must be connected as shown:

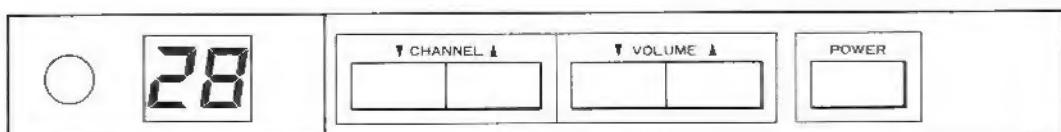


- B. When using an external VHF antenna with 75Ω coaxial cable lead or cable (CATV) lead connect directly as shown:



CHANNEL SELECTION PROCEDURE

This set is equipped with a frequency synthesizer (FS) electronic tuning system. A total of 125 channels can be tuned and include: Broadcast channels 02 through 13 (VHF), 14 through 69 (UHF) and cable (CATV) channels 01 through 13 (VHF), 14 through 22 (mid-band), 23 through 36 (super-band), 37 through 64 (hyper-band) and 95 through 99 (mid-band).



TV BROADCAST CHANNEL SELECTION

1



Set the reception mode switch to the "TV" (out) position

2 Automatic Scan Channel Selection

Press the channel selector buttons marked ▲ or ▼ for automatic scan channel selection. Pressing the channel selector button marked ▲ switches to the next higher channel available, skipping any inactive channels in-between. Pressing the channel selector button marked ▼ switches to the next lower channel available, skipping inactive channels in-between. Pressing continuously continues the scan until the button is released.

Note. Since there are no channel numbers 00, 01 or 70-99 automatic scan channel selection will skip these channel numbers.

CABLE (CATV) CHANNEL SELECTION

1. Set the reception mode switch to the "CABLE" (in) position.



2 Automatic Scan Channel Selection

Press the channel selector buttons marked ▲ or ▼ for automatic scan channel selection. Operation of automatic scan channel selection tuning mode for cable channels is the same as described in the preceding section (TV BROADCAST CHANNEL SELECTION) with the following exception: Channel numbers 00 and 65 through 94 are unassigned. Automatic scan channel selection will skip these channel numbers.

CABLE (CATV) CHANNEL ASSIGNMENT

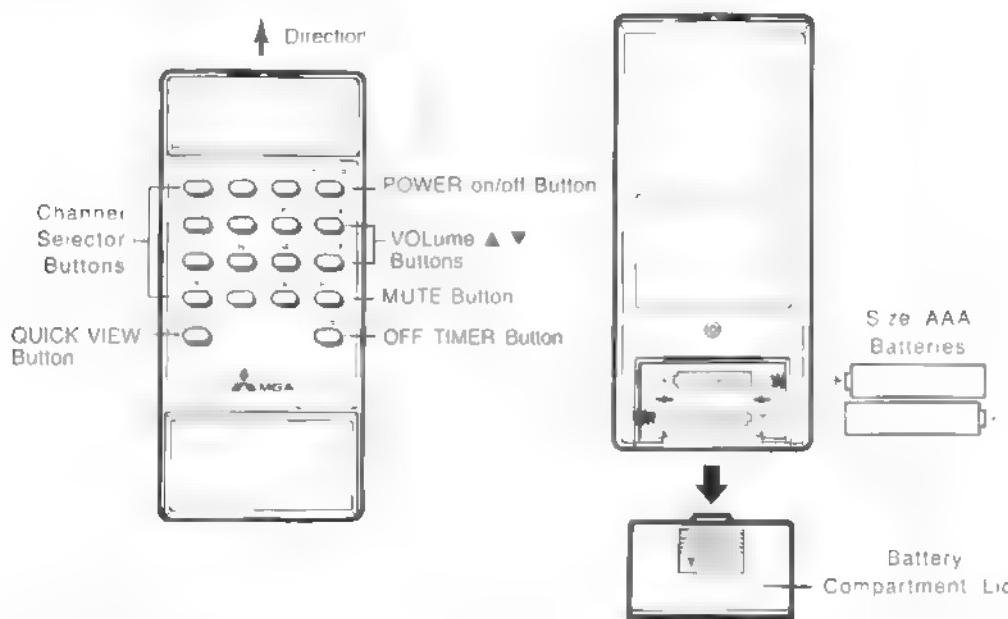
Channel number assignment for the cable tuning mode begins with 01 through 64, omits the unassigned numbers 65 through 94 then proceeds from 95 through 99. The specific channel number assignments and the corresponding alphabetical designation are shown below in the channel table.

		VHF L		MID		VHF H	SUPER		HYPER			UHF
TV		02-04	05-06	-		07~13	-		-			14-69
C A B L E	02 / 04 / 01	5A / 05 / 06	02 / 04 / 01	A-5(85)	A(14)	07~13	J(23)	Q(30)	W+1(37)	W+11(47)	W+20(56)	-
				A-4(96)	B(15)		K(24)	R(31)	W+2(38)	W+12(48)	W+21(57)	
				A-3(97)	C(16)		L(25)	S(32)	W+3(39)	W+13(49)	W+22(58)	
				A-2(98)	D(17)		M(26)	T(33)	W+4(40)	W+14(50)	W+23(59)	
				A-1(99)	E(18)		N(27)	J(34)	W+5(41)	W+15(51)	W+24(60)	
					F(19)		O(28)	V(35)	W+6(42)	W+16(52)	W+25(61)	
					G(20)		P(29)	W(36)	W+7(43)	W+17(53)	W+26(62)	
					H(21)				W+8(44)	W+18(54)	W+27(63)	
					I(22)				W+9(45)	W+19(55)	W+28(64)	
									W+10(46)			

For example: Channel number "14" corresponds with midband cable channel "A".

Note: Cable (CATV) services can vary from area to area. The channel number assignments shown in the channel table may not correspond with the channel number used by your local cable company. Direct tuning to cable channels without the use of the cable company "converter" or "pre-selector" will depend on the specific channels in use by the cable company. Direct tuning to cable channels is limited to unencoded (unscrambled) channels only. Check your local cable company compatibility requirements.

OPERATING THE REMOTE CONTROL TRANSMITTER



Install two size AAA batteries as shown.

Point the front of the remote control transmitter as shown in the direction of the front panel and operate.

OPERATION

A. POWER ON/OFF

Press this button to turn the TV on. Press again to turn off.

B. VOLUME CONTROL

The VO, MUTE ▲ or ▼ buttons adjust volume higher or lower as desired. Releasing either button stops the adjustment.

C. DIRECT CHANNEL SELECTION

Channel selection of all VHF (02-13) and UHF (14-69) channels may now proceed by pressing the desired channel number of the channel selector key pad. For example, to receive channel '23' press 2 and then 3 in sequence. Single digit channels (02-09) may be selected by pressing a combination of 0 and the channel number (eg. 05, 09 etc.). The new channel selection will appear immediately. Single digit channels may also be selected by pressing the single channel number without pressing the number 0. Using this method, there is an automatic 3 second delay, before the new channel selection appears.

Note: Since there are no channel numbers 00, 01 or 70-99 in the TV mode, and 00-65/94 in the CABLE mode, if these channel numbers are pressed the channel remains unchanged. If the channel number selected is an inactive channel, the tuning system automatically switches to the next higher active channel.

D. MUTE CONTROL

You may eliminate sound by pushing the Mute button. A second push will restore the sound. The picture is not affected.

E. QUICK VIEW SWITCH

Press this button once to return to the last channel previously tuned. Press again to return to the present channel.

F. OFF TIMER CONTROL

Press to operate the OFF TIMER. See the instruction on the following page for operation of the OFF TIMER.

QUICK VIEW

The QUICK VIEW function provides instant switching to the last channel previously tuned. Press the QUICK VIEW switch once to return to the last channel previously tuned. Press again to return to the present channel. The QUICK VIEW is operated from the remote control transmitter only.

OFF TIMER

The OFF TIMER is a built-in clocktimer which may be set to turn off the television after a preset time interval has elapsed. The OFF TIMER is operated from the remote control transmitter only.

Operating the OFF TIMER:

1. Press the REMOTE CONTROL TRANSMITTER button marked OFF TIMER. The CHANNEL SELECTION INDICATOR switches to a time indicator (in minutes) and the display "90" will appear.
2. The desired time interval is set by repeatedly pressing the OFF TIMER button. The timer starts at 90 minutes and is adjusted in the following sequence; 90, 80, 70... 10, 5, 0. The time indication will remain for 4 seconds after the desired time has been set. The display then automatically restores the channel number indication.
3. The remaining time may be checked by pressing the OFF TIMER button on the remote control transmitter. Press once only. The CHANNEL SELECTION INDICATOR will switch to time indication and display the remaining time for 4 seconds.

CHANGING OR CANCELLING THE OFF TIMER

Once the OFF TIMER has been set the remaining time may be extended, reduced, or cancelled using the following procedure:

1. Press the REMOTE CONTROL TRANSMITTER button marked OFF TIMER. The CHANNEL SELECTION INDICATOR will switch to display remaining time.
2. Press repeatedly to adjust to the desired time. The timer first adjusts to the nearest ten minute interval and then reduced the remaining time by 10 minute increments according to the sequence described in the preceding section. When the "0" indication is displayed, press again to add to the remaining time. For example, if 37 minutes remaining time is indicated, pressing the OFF TIMER button will produce the following sequence: 37, 30, 20, 10, 5, 0, 90, 80, 70... etc.
3. The OFF TIMER is cancelled by pressing the OFF TIMER button on the REMOTE CONTROL TRANSMITTER until "0" indication is displayed. After approximately 4 seconds the channel number indication is restored and the OFF TIMER is cancelled. The OFF TIMER is also cancelled by turning the set off with either the remote control transmitter or the front panel on/off button.

CAUTION AND CARE

For maximum enjoyment and safe operation of your MGA Color Television, please read the "IMPORTANT SAFEGUARDS" section carefully and apply them properly.

CALLING FOR SERVICE

Before requesting service please review this instruction book to correct minor complaints. If you are unable to correct the problem, consult your MGA Dealer or MGA Authorized Warranty Service Center.

Do not adjust any controls not described in this instruction book.

Do not remove the protective back cover of this unit.



MITSUBISHI ELECTRIC SALES AMERICA, INC.

5757 Plaza Drive, P.O. Box 6007

Cypress, CA 90630-0007

RETAIN THIS PORTION OF THE CARD FOR YOUR RECORDS

MODEL NO. CS-1945R
SERIAL NO. U194519907

CUSTOMER NAME	<u>T. B. Rountree</u>	DEALER	<u>Luskim</u>
STREET ADDRESS	<u>1506 Yeardley Dr.</u>		
CITY	<u>Richmond</u>	STATE	<u>VA</u>
		ZIP	<u>23225</u>

When requesting warranty service, please present this portion of the card to your authorized MGA Service Center.

**MGA COLOR TELEVISION OR COLOR MONITOR
19" OR LARGER**

LIMITED WARRANTY

MITSUBISHI ELECTRIC SALES AMERICA, INC. ("MESA") warrants to the original purchaser of this television or monitor that, should it prove defective by reason of improper workmanship and/or materials:

a. **Picture Tube.** For two years from the date of original purchase at retail, we will repair or replace, at our option, any defective picture tube without charge for the tube.

b. **Other Parts.** For one year from the date of original purchase at retail, we will repair or replace, at our option, any other defective part without charge for the part.

c. All parts used for replacement are warranted for the remainder of the original warranty period.

d. **Labor.** For one year from the date of original purchase at retail, we will provide the labor for a warranty repair by an authorized MGA service center without charge.

e. **Notice.** To obtain warranty service, you must notify an authorized MGA service center of any defect within the applicable warranty time period.

1. TO OBTAIN WARRANTY SERVICE, during the first year:

a. Contact your nearest authorized MGA service center whose name and address can be obtained from your MGA dealer or by writing or calling MESA at the address and telephone number provided below.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MGA service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE. However, please detach and return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2. **AFTER THE FIRST YEAR,** to obtain warranty service for a defective picture tube, you are responsible for delivering the television or monitor to an authorized MGA service center at your own expense.

3. **THIS WARRANTY DOES NOT COVER** damage caused by: modification, alteration, repair or service of the product by anyone other than an authorized MGA service center; physical abuse to, or misuse of, the product; operation in a manner contrary to the instructions which accompany the product; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or serviced outside the U.S.A., initial technical adjustments (set up) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

4. **ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.**

5. **UNDER NO CIRCUMSTANCES SHALL MESA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.**

6. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental, special, or consequential damages, so the above limitations or exclusions may not apply to you.

7. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

8. **BEFORE REQUESTING SERVICE,** please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MGA dealer for the name(s) of authorized MGA service centers. If you are unable to obtain this information, please call 714-220-1484, or write us at the address below.

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